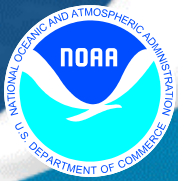




# Advanced Hydrologic Prediction Service (AHPS)

John Ingram  
AHPS Program Manager  
National Weather Service





# Advanced Hydrologic Prediction Service



**AHPS is about enhanced flood warnings and water resource forecasts leveraging NOAA's infrastructure and expertise.**





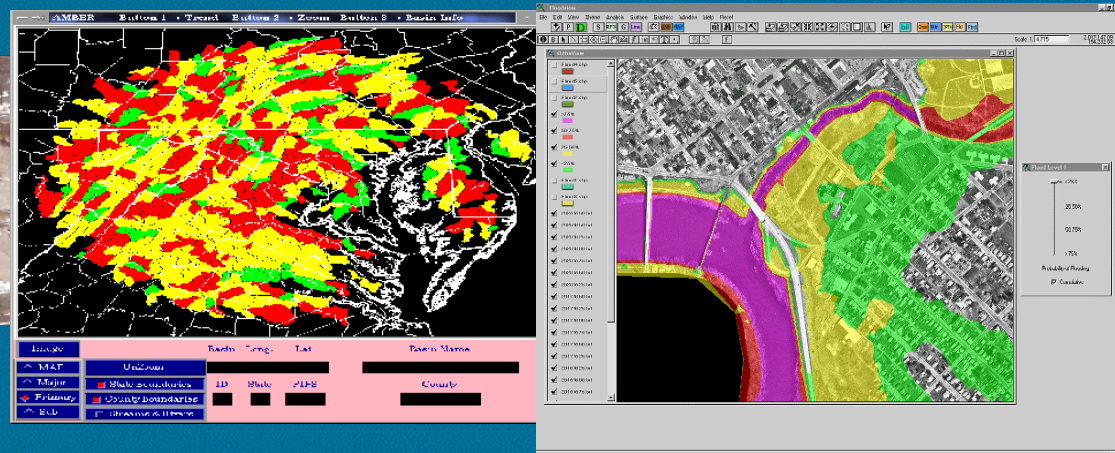
# Advanced Hydrologic Prediction Service

## Unmet Customer Needs

- More precise forecasts over all time scales
- Information to make risk based decisions
- Universal access
- Visually oriented products

## AHPS Provides

- Flash-flood to seasonal forecasts
- Forecast certainty
- Improved product delivery (Internet, wireless)
- Flood-forecast mapping

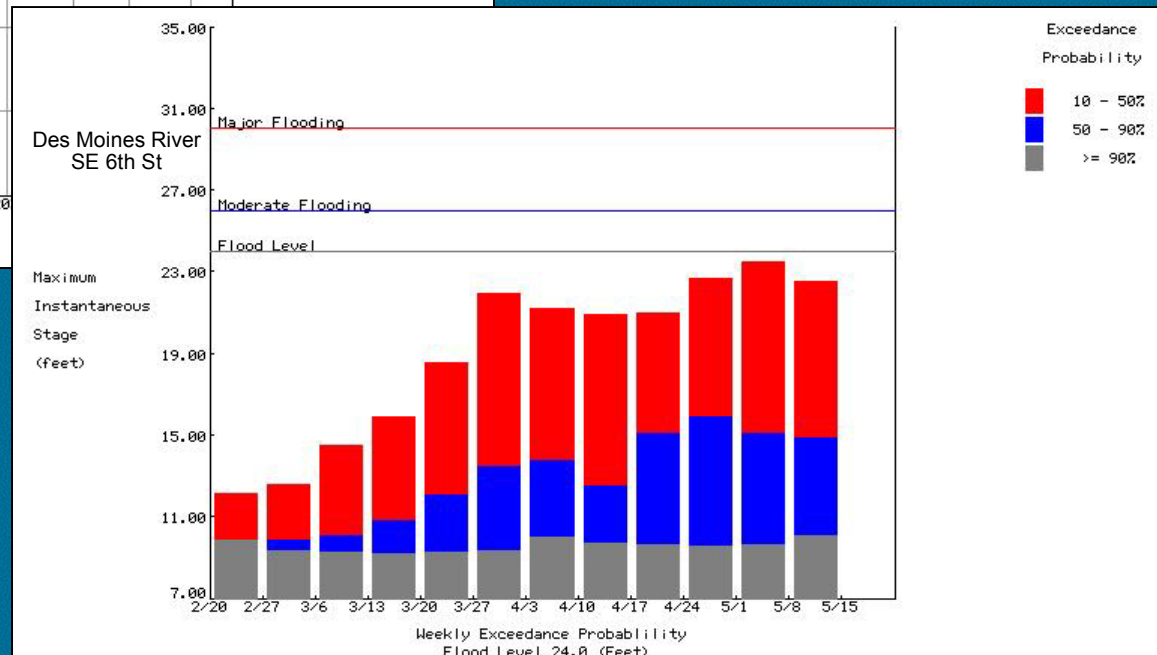
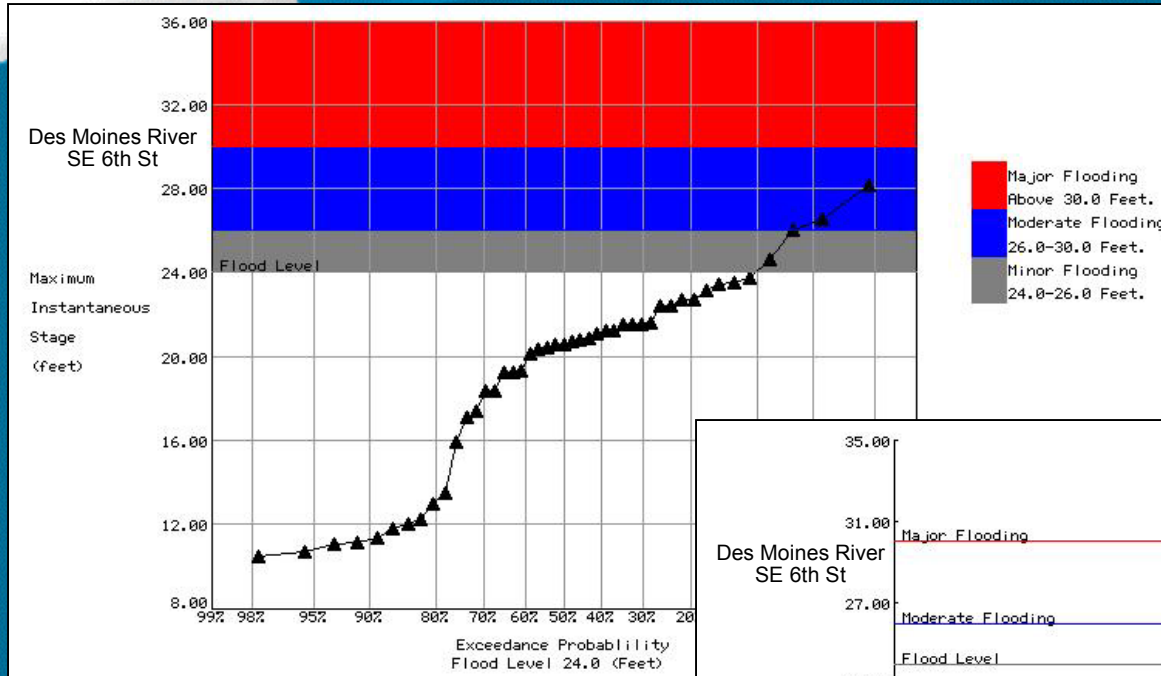






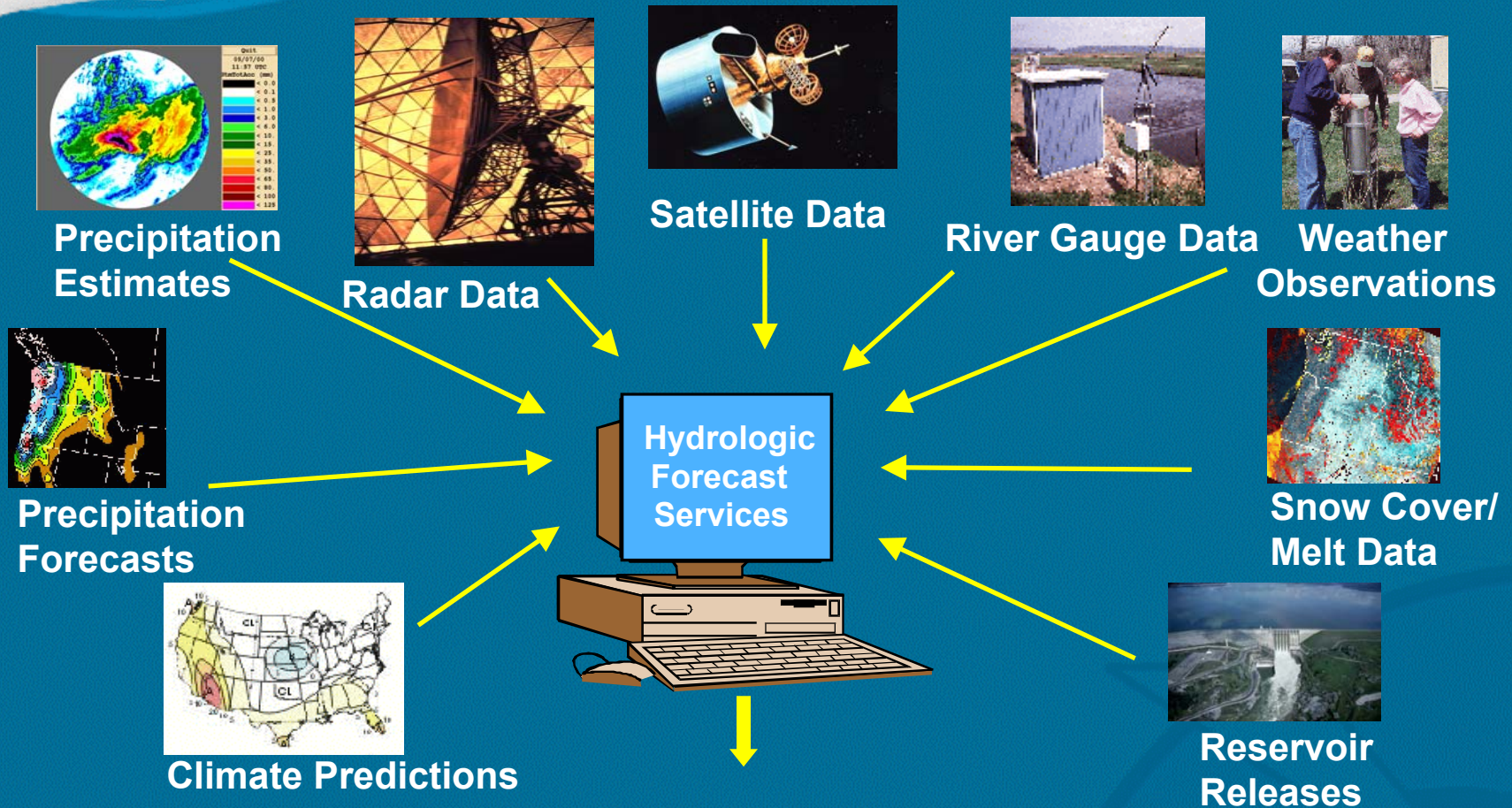
# Advanced Hydrologic Prediction Service

## Operational Products



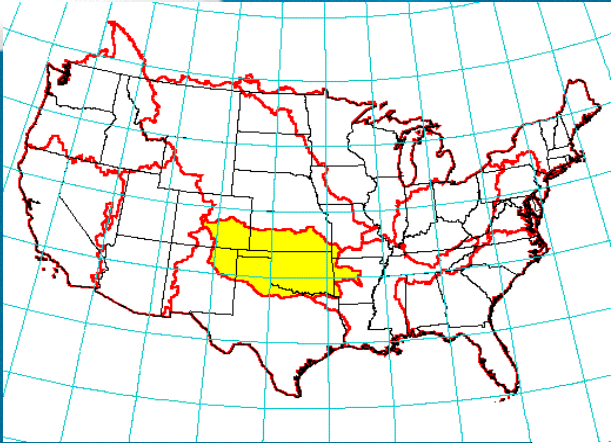


# Leveraging Tax Payer Investments

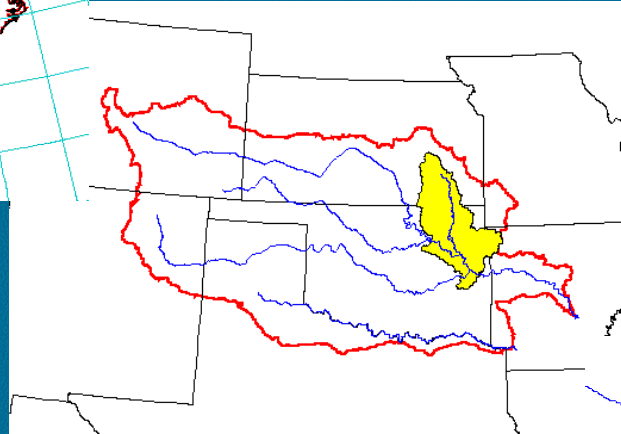




# Hydrologic Service Delivery

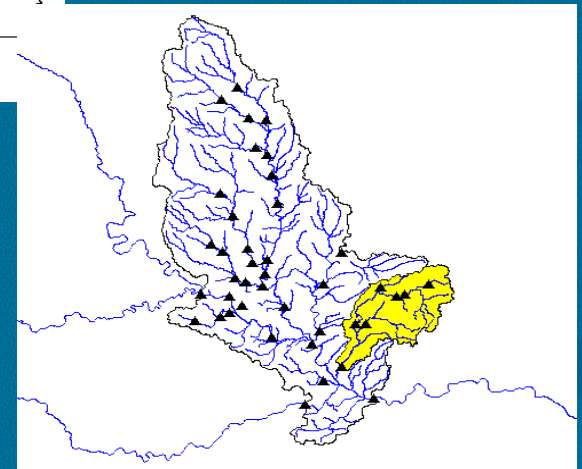


National



Major River Basin

Forecast Locations





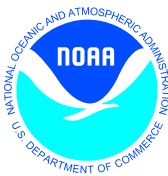
# Benefits of Basic Services

“Advanced Hydrologic Prediction Service Helps Save a Town”

NWS Focus, May 13, 2002



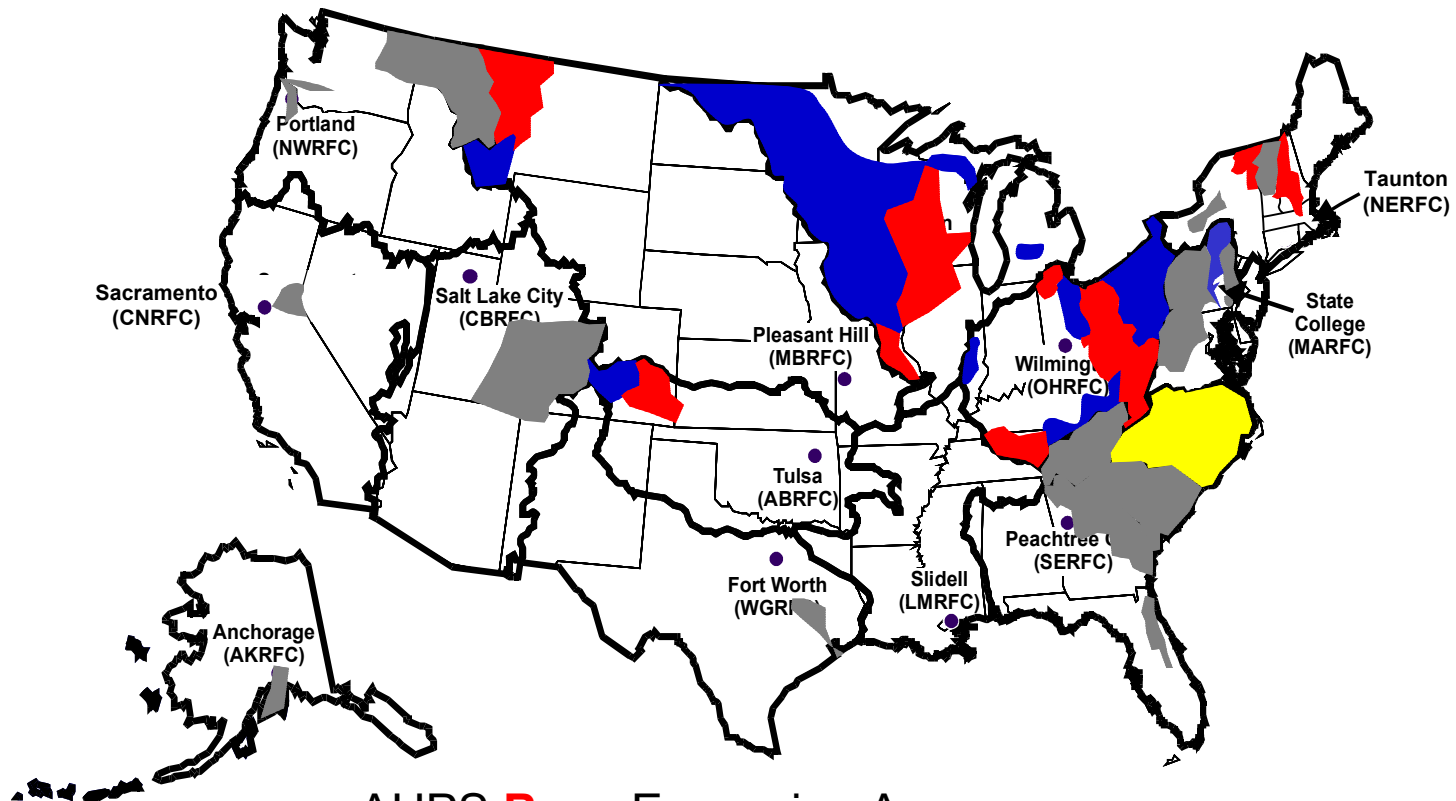
- Ohio River Forecast Center implemented AHPS for the Tug Fork of the Big Sandy River in West Virginia
- Tug Fork rose 37 feet in 16 hours on May 3, 2002
- Calibrated NWS river model enabled RFC to provide 5 hours lead time to onset of flood and 16 hours to maximum river level
- Provided Williamson town officials time to close flood wall, protecting residents and businesses







# Advanced Hydrologic Prediction Service



## Implementation with Senate Mark Through FY 2003



AHPS **Base** Expansion Areas

-  Areas Completed Through FY 2002 (275 Forecast Points)
-  Areas Covered by FY 2003 National AHPS (185 New Forecast Points)
-  Areas Deferred (187 Forecast Points)
-  Area Covered by FY 2002 - 2003 NC Flood Mapping Initiative (45 Forecast Points)



# Multi-Year Budget Summary

## (\$K)

			PB Request					
	Prior Years	FY02	FY03	FY04	FY05	FY06	FY07-12	Total
<u>Acquisition</u>								
Implementation	1,024	519	3,900	3,900	3,900	3,900	17,937	35,080
<u>Recurring</u>								
Science Infusion	270	215	980	980	980	980	5,880	10,285
Software Enhancement	400	506	810	810	810	810	4,860	9,006
Data		80	300	300	300	300	1,800	3,080
Verification	150	50	80	80	80	80	480	1,000
Training/Outreach	150	130	130	130	130	130	780	1,580
Total Recurring	970	981	2,300	2,300	2,300	2,300	13,800	24,951
Total for FY	1,994	1,500	6,200	6,200	6,200	6,200	31,737	60,031
Cumulative								
Forecast Locations	162	275	325	828	1,331	1,834		4,011